

U. S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: August 16, 1988

Region II
Response and Prevention Branch
Edison, New Jersey 08837
(201) 548-8730 - Commercial & FTS
24 Hour Emergency

TO: W. Muszynski
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TAT

POLREP NO.: Thirty-six (36)
INCIDENT/SITE NO.: Arkansas Chemical Company/T9
POLLUTANT: Textile chemicals and intermediates
CLASSIFICATION: Major
SOURCE: Abandoned chemical facility
LOCATION: Newark, New Jersey
AMOUNT: 800 drums, 87 indoor and
outdoor tanks of which less than ten hold
oil, acid, and unknowns
WATER BODY: None

1. SITUATION

- A. The Arkansas Chemical Company produced textile and other specialty chemicals at its Newark facility until it was abandoned in 1983. Abandoned on this site are a two-story office/laboratory building (Bldgs. 25/30), a machine shop (Bldg. 26), a small chemical processing building (Bldg. 27), a large four-story chemical process building (Bldg. 28), a boiler room/tank house (Bldgs. 16 & 16B), a storage building (Bldg. 24), and two sheds (S1 & S2). About 1500 drums and 20,000 small containers of chemicals exist in these buildings. In addition, there are approximately 17 aboveground storage tanks and 70 process tanks/reaction vessels.

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2. ACTION TAKEN:

- A. Listed below are the major waste streams of hazardous materials classified on-site and their current status. An estimated 45,738 gallons of material remain on-site. The chemicals remaining at the facility are as follows:

1) Base/Neutral and Oxidizer Liquids, Oxidizer and Reactive Solids (28% of total waste streams) 9,000 gallons, 33 gallons, 5 gallons and 3 gallons respectively are mixed together in a bulking chamber stored behind building 28. For safety purposes the opening to this chamber was sealed and padlocked. This material has been scheduled for disposal on 08/16/88.

2) Flammable and Organic Liquids (13% of total waste streams) 2,745 gallons and 3,100 gallons respectively are mixed together in a bulking chamber behind building 28B. As an added measure of security, approximately 5,000 gallons of this material was pumped into a holding pool inside of building 28 on January 20, 1988. Due to settling, approximately 1,000 gallons of material had solidified which prohibited complete transfer. Currently, the solid material is stored in the sealed bulking chamber. This material has been scheduled for disposal on 08/16/88.

3) Acid Liquids (7% of total waste streams) 3,200 gallons of this material are staged in their original containers inside building 28. Disposal analysis has been performed and waste facility acceptance is complete.

4) Cyanide Liquids (<1% of total waste streams) 44 gallons of this material are staged in their original containers inside building 28. Disposal analysis has been performed and waste facility acceptance is complete.

5) Peroxide Liquids and Solids (2% of total waste streams) 650 gallons and 10 gallons respectively of these materials are bulked together in overpack drums inside building 28. Disposal analysis has been performed and waste facility acceptance is complete.

6) Halogenated Organic Liquids (1% of total waste streams) 583 gallons of this material are staged in overpack drums inside building 28. Disposal analysis has been performed and waste facility acceptance is complete.

7) Base/Neutral Solids (33% of total waste streams) 15,000 gallons of this material are staged in their original containers inside building 28. Disposal analysis has indicated that this material qualified for landfill disposal.

8) Acid Solids (9% of total waste streams) 4,200 gallons of this material are staged in their original containers inside building 28. Disposal analysis has indicated that the pH needs to be lowered prior to disposal.

9) Cyanide solids (<1% of total waste streams) 90 gallons of this material are staged in their original containers inside building 28. Disposal analysis has been performed and waste facility acceptance is complete.

10) Organic and Flammable Solids (7% of total waste streams) 2,500 gallons and 575 gallons respectively have been bulked together in their original containers inside building 28. Disposal analysis has been performed and waste facility acceptance is complete.

B. Aside from the main waste streams yet to be disposed of the following material will require removal from the site and appropriate disposal:

1) The disposal of nearly 20,000 laboratory reagent bottles is complete with the exception of 9 specific wastes. These wastes include explosives, mercury compounds and PCB's. Alternate disposal methods for these items are under way.

2) Three gas cylinders, two of which are unknown, remain on site. Disposal via manufacturer identification is under way.

3) All asbestos material has been stabilized in place and awaits final mitigation.

4) Nearly 600 empty drums are staged inside building 24 awaiting cleaning and shredding.

C. EPA conducted three preparatory meetings with ERCS prior to mobilizing on 08/15/88. The first meeting on 08/04/88 was held to determine whether previous sampling results would still be valid for disposal. ERCS reported that the sampling results from 12/87 would still be valid. On 08/08/88, EPA, TAT and ERCS conducted a site visit so that the Response Manager could familiarize himself with the site. EPA and ERCS met again on 08/12/88 to review the disposal schedule and to coordinate site activities for mobilization.

D. On 08/15/88 ERCS remobilized. Site activities for this day were dedicated to reviewing site safety protocol, refurbishing existing site structures, and preparing for the removal of wastes stored in the bulking chambers and holding pools.

3. FUTURE PLANS AND RECOMMENDATIONS:

A. ERCS will continue to arrange for disposal of the drummed material in building 28.

B. ERCS will begin segregating color-coded drums in building 28 to either overpack or bulk them.

C. EPA/TAT will solicit bids for drum reconditioning or incinerating.

D. EPA/TAT will solicit bids for asbestos removal.

4. FINANCIAL ACCOUNTING:

A. Total Project Ceiling Authorized	\$ 3,552,009
B. Mitigation Contract Ceiling	\$ 2,781,000

C. Expenditures for Mitigation Contracts

1. a. Amount obligated to ERCS contractor for Delivery Orders #6893-02-073 and #7445-02-008 (DCNs KCS - 361, 629, 633, 710, 726, 730, KE - 0001, 0027, 0035 0044, 0045, 0083, 0101) as of August 16, 1988	\$ 2,370,380
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1. b. Amount de-obligated due to contract roll-over	\$ 1,991
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1. c. Total amount obligated to date	\$ 2,368,389
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1. d. Estimated mitigation expenditures as of August 16, 1988	\$ 1,596,000
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1. e. Balance Remaining	\$ 772,389
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D. Unobligated Balance Remaining	\$ 410,611
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E. Estimate of Total Expenditures to Date for All Mitigation Contracts	\$ 2,368,389
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F. Other Extramural Costs as of August 16, 1988

1. a. TAT Salary/Travel (estimated)	\$ 106,000
b. Analytical Costs	\$ 6,628

G. Intramural Costs as of August 16, 1988
1. a. EPA (Estimated Direct and Indirect) \$ 77,833
H. Total Expenditures \$ 1,779,833
Percent of Total Project Ceiling 50.1%

FINAL POLREPS
POLREP _____ FORTHCOMING ☒ SUBMITTED BY: Mark P. Pane
Mark P. Pane, OSC
Response and
Prevention Branch

DATE RELEASED: AUGUST 16, 1988